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a mean linoleic acid content of 27.4% or less, by weight relative to the total fatty acid content of said seed.

2. (original) The assemblage of corn seeds according to claim 1, wherein said mean saturate content is less than about 6.7% by weight.

3. (original) The assemblage of corn seeds according to claim 1, wherein said mean saturate content is less than about 6.0% by weight.

4. (previously amended) The assemblage of corn seeds according to claim 1, wherein said seeds are obtained from a plant or plants belonging to the LS0417 (ATCC Accession No. PTA-1397) corn line.

5. (previously amended) The assemblage of corn seeds according to claim 1, wherein said seeds are obtained from a plant or plants belonging to the LS1498 (ATCC Accession No. PTA-1396) corn line.

6. (currently amended) A corn plant, belonging to a corn line selected from the group consisting of LS0417 (ATCC Accession No. PTA-1397), LS1498 (ATCC Accession No. PTA-1396), and LS288 (ATCC Accession No. PTA-3642), said plant producing seeds having a mean saturate content of less than about 7.0%, a mean oleic acid content of at least 64.9%, and a mean linoleic acid content of 27.4% or less, by weight relative to the total fatty acid content of said seeds.

7-9 (canceled)

10. (previously amended) The corn plant according to claim 6, wherein said corn plant belongs to the LS0417 (ATCC Accession No. PTA-1397) corn line.

11. (previously amended) The corn plant according to claim 6, wherein said corn plant belongs

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to the LS1498 (ATCC Accession No. PTA-1396) corn line.

12-15 (canceled)

16. (currently amended) A method for producing low saturate corn material comprising the steps of:

- (a) obtaining a plurality of corn seeds, from a plant or plants belonging to a corn line selected from the group consisting of LS0417 (ATCC Accession No. PTA-1397), LS1498 (ATCC Accession No. PTA-1396), and LS288 (ATCC Accession No. PTA-3642), said corn seeds having a mean saturate content of less than about 7.0%, a mean oleic acid content of at least 64.9%, and a mean linoleic acid content of 27.4% or less;
- (b) growing out said plurality of corn seeds to obtain a population of corn plants;
- (c) intermating plants from said population to produce first seeds;
- (d) subjecting said first seeds to selection based on saturate content, such that a predetermined saturate percentage of said first seeds is retained to obtain a group of selected seeds;
- (e) growing said selected seeds into plants;
- (f) intermating said plants to produce second seeds; and
- (g) with said second seeds obtained, repeating steps (b), (c), (d), (e), and (f) at least once, whereby plants producing seeds that have a mean saturate content of less than about 7.0% by weight are obtained.

17. (canceled)

18. (previously amended) The assemblage of corn seeds according to claim 1, wherein said seeds are obtained from a plant or plants belonging to the LS288 (ATCC Accession No. PTA-3642) corn line.

19. (previously amended) The corn plant according to claim 6, wherein said plant belongs to the LS288 (ATCC Accession No. PTA-3642) corn line.

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20. (previously amended) The method according to claim 16, wherein said corn seeds are obtained from a plant or plants from the LS0417 (ATCC Accession No. PTA-1397) corn line.

21. (previously amended) The method according to claim 16, wherein said corn seeds are obtained from a plant or plants from the LS1498 (ATCC Accession No. PTA-1396) corn line.

22. (previously amended) The method according to claim 16, wherein said corn seeds are obtained from a plant or plants from the LS288 (ATCC Accession No. PTA-3642) corn line.

23. (currently amended) A method for initiating a corn plant breeding program for developing a corn plant ~~in a corn plant breeding program~~ using plant breeding techniques, which includes employing a corn plant, or its parts, as a source of plant breeding material, comprising:

obtaining a corn plant of claim 6, or parts of a corn plant of claim 6 as a source of said breeding material.

24. (previously presented) A method for producing a first generation hybrid maize seed comprising the steps of:

crossing a plant according to claim 6 with a different inbred parent maize plant and harvesting the resultant first generation hybrid maize seed.

25. (previously presented) The method of claim 24, wherein the corn plant of claim 6 is the female or male parent.

26. (previously presented) An F1 hybrid seed produced by crossing a corn plant according to claim 6 with another, different corn plant.

27. (previously presented) An F1 hybrid plant, or parts thereof, grown from the seed of claim 26.

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